Approved For Release 2009/06/11: CIA-RDP78B03824A000700030009-8 CLASSIFIED MESSAGE ROUTING ORIG 100 SEGRET UNIT 5 EXT DATE : 28 AUG 70 TO : 11 ? FROM: DEFERRED PRIORITY CONF: OPERATIONAL IMMEDIATE INITIALS ROUTINE INFO: PAGE 1 OF 17 ФUТ70502 9153 то CITE SUBJ: MSN 1111 PHOTOGRAPHIC EVALUATION INTERIM REPORT (PEIR) 1. NUMERICAL SUMMARY: MSN NO & DATES: 1111-1, 23-30 JUL 70, REC. 30 JUL 70/0200Z 1111-2, 30 JUL - 10 AUG 70, REC 10 AUG 70/2128Z LAUNCH DATE & TIME: 23 JUL 70/0125Z VEHICLE NO: 1654 CAM SYS: CR-12 PAN CAMS: AFT LOOKING 324, FILM TYPE 3414 FWD LOOKING 325, FILM TYPE 3414 DISIC UNIT: 2R STELLAR LENS: PORT F/2.8 1.5 SEC NO FILTER STB F/2.8 1.5 SEC NO FILTER FILM TYPE: 3401 TERRAIN LENS: F/6.3 1/500 SEC (FIXED) W-12 FILTER

TOP SECRET

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FILM TYPE: 3400	
REC REVS: MSN 1111-1, REV 112	
MSN 1111-2, REV 301	
LAUNCH WINDOW: 0125Z TO 0145Z, 23 JUL 70	
2. CAM SETTING:	
FWD LOOKING: W-25 GELATIN (PRIM)	
W-25 GLASS-7 MILS (ALT)	
SLIT WIDTH POS 1 - 0.131	
POS 2 - 0.176	
POS 3 - 0.234	
POS 4 - 0.287	
FAIL SAFE-0.189	
AFT LOOKING: W-21 GELATIN (PRIM)	
W-21 GLASS - 7 MILS (ALT)	
SLIT WIDTH POS 1 - 0.080	
POS 2 - 0.110	
POS 3 - 0.155 COORDINATING OFFICERS	
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	POS 4 - 0.195	
	FAIL SAFE - 0.135	
	3. PERFORMANCE SUMMARY:	
	A. REPORTED PI SUITABILITY FOR MSN 1111 RANG	GED FROM GOOD
	TO POOR WITH LARGE PORTION IN GOOD TO FAIR CATEGORY.	STATED THAT
	IMAGE QUALITY VARIABILITY IS ATTRIBUTABLE TO VARIATION IN	N ACQUISITION ALT
	(88NM TO 147NM) AND ADVERSE WEATHER CONDITIONS (CLOUD CO	VER APPROX 30 PCT).
	PET TEAM CONCURS WITH COMMENTS AND NOTED THAT MS	N 1111, EXCEPT
	FOR WEATHER AND ALTITUDE VARIATIONS, PRODUCED THE MOST CO	ONSISTENTLY CRISP
	IMAGERY OF ANY CORONA SYSTEM FLOWN. THE 3414 FILM APPEAR	RS TO HAVE ENHANCED
	MSN PERFORMANCE THROUGH REDUCTION OF EXPOSURE TIME AND $\mathbf{M}$	EAN CAMERA SMEAR.
	IMAGERY ACQUIRED DURING CLEAR WEATHER CONDITIONS HOLDS TO	GETHER WELL AT
	100X MAG. THE MIP'S OF 105 WHICH WERE ASSIGNED MSNS 111	1-1 AND 1111-2 WERE
	CONSIDERED EXTREMELY GOOD FOR THE ACQUISITION ALT. ALTHO	OUGH BOTH MIP FRS
	WERE OBTAINED WITH FWD CAM, THE PET NOTED THAT THE VARIABLE	BILITY OF THE FWD
	IMAGERY IS GREATER THAN THE AFT. COMPARISON OF C	CAM SYS RES, BASED
	ON CORN TGT ANALYSIS, SHOWED MSN 1111 EQUAL TO OR SUPERIOR COORDINATING OFFICERS	OR IN ACHIEVED-ON-ORBIT
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RES TO MSNS 1104 AND 1106. THESE ARE THE ONLY TWO MSNS WHICH ACHIEVED
HIGHER MIP'S. THE MEAN ON-ORBIT RES OF BOTH FWD AND AFT CAMS IS ESTIMATED

TO BE NEAR THE PEAK LEVEL OF SYS (CR-12) CAPABILITY (120-160C/MM) AT 2:1 CONTRAST.

B. MSN 1111 CRYSPER-C COMPUTER EVALUATIONS WERE CONDUCTED PRE-MSN AND RESULTS SUPPLIED TO COMIREX AND SOC. AS PART OF PET ACTIVITIES A CORRELATION WAS MADE OF CRYSPER PREDICTIONS FOR CORN TARGETS ON MSN

1111-1 AND READINGS SUPPLIED BY AND PET TEAM MEMBERS. RESULTS

ARE	AS FOLLOWS:		SCAN	VERT	CRYSPER-C	ጥርጥ	RES
PASS	TGT	CAM	ANGLE	ALT (NM)	RES (FT)	FT FT	C/MM
A10	EDWARDS B-1	FWD	24	128.3	10.0	12.0	129
A10	EDWARDS B-1	AFT	24	128.3	11.8	10.1	153
A10	EDWARDS B-2	FWD	24	128.3	10.0	12.0	129
A10	EDWARDS B-2	AFT	24	128.3	11.8	10.5	147
A10	51-51	FWD	-1	128.0	8.3	8.5	159
A10	51-51	AFT	-1	128.0	9.6	9.3	146
A10	PAHRUMP	FWD	16	126.3	8.3	10.0	141
A10	PAHRUMP	AFT	16	126.3	8.6	9.1	155

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TGT RES CRYSPER-C SCAN VERT PASS TGT CAM ANGLE ALT (NM) RES (FT) FT C/MM A10 INDIAN SP. FWD 13 125.7 8.0 11.6 119 A10 INDIAN SP. AFT 13 125.7 8.1 10.8 127 D45 51-51 FWD 3 90.9 6.7 7.7 134 D45 51-51 AFT 90.9 6.8 6.8 142

- C. THE PET RECOMMENDS A COMPLETE ANALYSIS OF CRYSPER-C PREDICTIONS

  VERSUS PI SUITABILITY RATINGS BE MADE FOR MSN 1111 MISSILE TGTS. IT IS

  SUGGESTED COORDINATE ANALYSIS. BASED ON RES/CRYSPER

  DATA, THE PET FEELS A STATISTICAL CORRELATION CAN BE SHOWN BETWEEN

  PREDICTED RES AND PI SUITABILITY.
- D. NOTE HAS ALREADY BEEN MADE OF EXCELLENT FOCUS OF CAM SYS THROUGHOUT MSN. THE PET ATTRIBUTES THIS TO DECISION MADE BY 1110 PET TO FOCUS CAMS FOR MSN 1111, BASED ON EXPECTED ON-ORBIT TEMP OF 60-65 DEG INSTEAD OF 70 DEG USED FOR PREVIOUS MSNS. THE PET RECOMMENDS THIS PROCEDURE BE CONTINUED ON FUTURE SYSTEMS.
- E. AN INFLIGHT FOCUS ADJUST CAPABILITY WAS INTRODUCED ON MSN 1111. WITH
  0.004 INCH THICK GELATIN FILTERS IN PRIMARY POSITION AND 0.007 INCH THICK
  COORDINATING OFFICERS

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GLASS FILTERS IN ALT POSITION, A FILTER CHANGE DURING OPERATION

EFFECTED A NOMINAL 0.001 INCH FOCAL SHIFT. IMAGERY FROM MSN 1111-1,

PARTICULARLY PASS DO63, WAS USED TO COMPARE IMAGE QUALITY RESULTING FROM
EACH FILTER. THE COMPARATIVE EVAL WAS BASIS OF DECISION FOR CAM FOCUS
ON MSN 1111-2, AND SHOWED THAT A 0.001 INCH NOMINAL FOCAL SHIFT IS

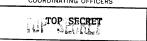
DETECTABLE IN IMAGERY. THE DIFFERENCE IN FOCAL POSITION IS MORE EVIDENT
IN FWD CAM IMAGERY THAN AFT. VISUAL EDGE MATCHING (VEM) WAS USED AS PART
OF MID-MSN EVAL AND THIS DATA SUBSTANTIATED SUBJECTIVE EVAL. RES IN IMC
DIRECTION IS CONSISTENTLY SUPERIOR TO THAT IN SCAN DIRECTION ON THE 12

FRS EVALUATED WITH VEM. THE HIGHEST RES READ (AN AVERAGE OF 4 READERS)
WAS 143 C/MM, OBTAINED FROM AFT LOOKING CAM/GELATIN FILTER COMBINATION.
BY AVERAGING VEM DATA FROM ALL FRS, COMPARATIVE PERFORMANCE OF PASS DO63
IS CHARACTERIZED BY IMC/SCAN RES AS FOLLOWS:

CAM	GELATIN FILTER (IN FOCUS)	GLASS FILTER (DE FOCUS)
FWD (W-25)	120/89C/MM	114/52C/MM
AFT (W-21)	126/99C/MM	95/80C/MM

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BASED ON FILTER STUDY FROM MSN 1111, THE PET RECOMMENDS THAT W-25 AND 21 SPECTRAL COATINGS ON 0.007 INCH GLASS SUBSTRATE FILTER BE INSTALLED IN ALT POSITIONS OF CR-13 FOR USE DURING MSN 1112. THROUGH FOCUS RES TESTS WILL BE CONDUCTED WITH BOTH GELATIN AND GLASS FILTERS ON PHOTO OPTICAL SIMULATOR BEFORE MISSION.

INFO

## 4. PAN CAM ANOMALIES:

A. ANOMALY: RANDOM, INTERMITTENT, PLUS DENSITY SPOTS ARE PRESENT ON ALL MAIN CAM MATERIALS BEGINNING WITH PASS A113 AND CONTINUING THROUGH BALANCE OF MSN. SIZE OF SPOTS VARIES WITH LARGEST APPROX FIVE THOUSANDTHS INCH. THESE SPOTS ARE SIMILAR TO THOSE NOTED ON MSN 1110-2 AND GENERALLY APPEAR IN TWO GROUPINGS ON LAST EIGHT INCHES OF SUPPLY END OF FR. THESE SPOTS ARE HEAVILY CLUSTERED TOGETHER IN PATTERN ON PASS A113 FWD AND AFT AND APPEAR AS ABRASION MARKS OR SMUDGES TO UNAIDED EYE. THIS PATTERN BEGINS AT SUPPLY END AND CONTINUES APPROX NINE INCHES INTO EACH FR OF PASS A113. THE PATTERN APPEARS AS TWO PARALLEL, LONGITUDINAL MARKINGS WITHIN FORMAT ULTIMATELY CONVERGING TOWARD CENTER OF FR WITHIN LAST THREE INCHES. THE PATTERN ON FWD RECORD CONTINUES INTO PASS D115 WITH DECREASING SEVERITY

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AT END OF PASS.

CAUSE: FOLLOWING MSN 1110 AND 1111, SERIES OF INDEPENDENT INVESTIGATIONS WAS PERFORMED BY UTILIZING AVAILABLE MSN DUPE POS AND TEST-GENERATED ORIG NEGS. THE FOLLOWING OBSERVATIONS HAVE BEEN MADE:

- 1. THE SPOTS OCCUR WITH GREATER FREQUENCY ON SUPPLY SIDE OF FORMAT. HOWEVER, THEY HAVE BEEN OBSERVED RANDOMLY THROUGHOUT ENTIRE ACTIVE FORMAT.
- 2. OCCASIONALLY, A NEG DENSITY CENTER NUCLEUS IS EXHIBITED IN THE SPOT ON THE ORIG NEG.
  - 3. OCCASIONALLY, A ROW OF PEARL-LIKE SPOTS WERE OBSERVED.
  - 4. FREQUENCY OF SPOT OCCURRENCE APPEARS GREATER ON ALTERNATE FRS.
- 5. SPOTS DO NOT OCCUR IN UNEXPOSED RAIL AREAS, BUT APPEAR RESTRICTED TO A 1.75 INCH WIDE BAND IN CENTER OF ACTIVE FORMAT. HOWEVER, THE SPOTS DO EXTEND INTO UNEXPOSED INTERFRAME AREA BETWEEN MAIN FORMAT AND A. O. EXPOSED AREA AND ALSO APPEAR IN A. O. FORMAT.
  - 6. SIZE OF SPOTS RANGES FROM .0005 INCH TO .005 INCH.

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- 7. SPOTS HAVE BEEN OBSERVED ON 3404 AND 3414 AND ONLY ON MATERIAL WHICH RECEIVED DUAL GAMMA PROCESSING.
- 8. IN 1110 AND 1111 SPOT APPEARANCE HAS BEEN RESTRICTED TO "B" PORTION OF FLIGHT MATERIAL. HOWEVER, IN 1111 SPOTS OCCURED EARLIER AND ARE MORE EXTENSIVE THAN IN 1110.
  - 9. SPOTS HAVE NOT BEEN OBSERVED IN HIVOS TEST RUNS.
- 10. SPOTS WERE NOT CONSIDERED OBJECTIONABLE BY PI'S ON MSN 1110 BUT ARE OBJECTIONABLE ON MSN 1111.
- 11. THERE IS A SIGNIFICANT REDUCTION IN OCCURRENCE OF SPOTS ON NEXT TO LAST FR OF EACH PASS.

ACTION: THE PET RECOMMENDS THIS ITEM REMAIN OPEN AND AN INVESTIGATION BE CONDUCTED TO DETERMINE POSSIBLE CAUSE. FOLLOWING ACTION IS RECOMMENDED:

- 1. INVESTIGATE 3414 MATERIAL FROM OTHER SYSTEMS ON A CURRENT BASIS FOR OCCURRENCE OF SIMILAR ANOMALY.
- 2. REVIEW ALL MATERIAL FROM MSNS 1110 AND 1111 TO SUBSTANTIATE

  PRELIMINARY OBSERVATIONS AND POSSIBLY PROVIDE CORRELATION WITH OPERATIONAL PARAMETERS.

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- 3. DETERMINE FEASIBILITY OF INVESTIGATING FLIGHT PAYLOAD FROM MSNS OTHER THAN 1110 AND 1111.
- 4. PROVIDE A REPRESENTATIVE PORTION OF MATERIAL FROM NEXT HIVOS FOR DUAL GAMMA PROCESS.

A TEAM OF REPS FROM WILL CONVENE AT CLOSE OF PET MEETING TO OUTLINE SPECIFIC STEPS TO SATISFY ABOVE REQUIREMENTS.

B. ANOMALY: FRS 16 THRU 24 OF PASS D242 CONTAIN VERY FINE PLUS DENSITY MARKINGS. THESE MARKINGS BEGIN AS FINE, LONGITUDINAL RAKE MARKS CONFINED TO BINARY BORDER AREA AND PROGRESS TO A MORE PREDOMINANT HIGH FREQUENCY SQUIGGLE (RASTER-LIKE) MARK BY FR 21. ON FRS 23 THRU 24 THIS SQUIGGLE EFFECT MAINTAINS APPROX 0.5MM AMPLITUDE WITH AN ESTIMATED 200 CYCLES OVER A 2.00MM DISTANCE. THESE SQUIGGLES ARE ORIENTED PARALLEL TO MAJOR AXIS OF FILM. ON FRS 23 AND 24 THE SQUIGGLE PATTERNS OVERLAP AND APPEAR AS CHECKER-BOARD PATTERNS TO UNAIDED EYE. THESE PATTERNS ARE GENERALLY CONFINED TO BOTH BORDERS, HOWEVER, THEY ALSO OCCUR WITHIN FORMAT. DEGRADATION TO IMAGERY IS MINOR.

CAUSE: NOTHING ASSOCIATED WITH CAM SYS OF FILM HANDLING CAN BE IDENTIFIED AS CAUSE AT THIS TIME. COORDINATING OFFICERS

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ACTION: THE ENTIRE SY	S WILL BE REVIEWED IN DE	TAIL TO ESTABLISH
ANY RELATIONSHIP OR CAUSE	OF ANOMALY. ASSIGNED TO	
C. ANOMALY: A VERY I	DENSE FOG PATTERN IS PRESI	ENT ON THIRD AND FOURTH
FRS FROM END OF ALL CAM OF	S. FOG ON THIRD FR FROM	END IS APPROX FOUR
INCHES IN LENGTH AND COVER	RS WIDTH OF FORMAT. FOG (	ON FOURTH FR FROM END
PROTRUDES ONE INCH INTO FO	DRMAT FROM BINARY EDGE ANI	D IS APPROX TWO INCHES
IN LENGTH. THESE FOG PATT	TERNS OBSCURE IMAGERY.	
CAUSE: ORIENTATIO	N OF FOG MARKS INDICATE 1	THAT THE PRINCIPLE FOG
MARK ON THIRD FR WAS CAUSE	D BY LIGHT COMING FROM FW	WD SIDE OF FWD LOOKING
CAM DRUM/BOOT AREA BELOW F	ILM. FOG MARK ON FOURTH	FR IS BELIEVED TO BE A
REFLECTION, WITHIN SPACE S	TRUCTURE, FROM LIGHT LEAK	к.
ACTION: A REVIEW	OF LIGHT LEAK PROCEDURES	IS RECOMMENDED TO
DETERMINE THOROUGHNESS OF	PHOTOMULTIPLIER SEARCH FO	OR EVALUATING LIGHT
LEAKS IN THE BOOT SEAL ARE	AS. ASSIGNED TO	
D. ANOMALY: A FOG PA	TTERN IS PRESENT NEAR SUP	PPLY END OF THIRD FR
OF EACH CAM OP. THIS PATT	ERN EXTENDS APPROX ONE HA	ALF INCH FROM BINARY FILM
EDGE INTO FORMAT AND CAUSE	S MINOR DEGRADATION TO IM	MAGERY.

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CAUSE: FOG MARK APPEARS TO BE CAUSED BY LIGHT LEAK IN DRUM AREA OF FWD LOOKING CAM.

ACTION: SEE PARA 4C.

E. ANOMALY: SEVERAL MINOR, LONGITUDINAL PLUS DENSITY LINES ARE PRESENT INTERMITTENTLY THROUGH FWD RECORD. THESE LINES CONTINUE THROUGH HORIZON FORMAT.

CAUSE: MARKINGS APPEAR TO BE RESULT OF ABRASIONS BETWEEN FILM AND A TRANSPORT COMPONENT. FINE SCRATCHING WAS INDUCED DURING AMBIENT OPERATION WITH FLIGHT MATERIAL. ANOMALY REPORTED IN FLIGHT APPEARS ASSOCIATED WITH THESE SCRATCHES. EXTENT OF INVESTIGATION AFTER PRE-FLIGHT LOADING WAS RESTRICTED BY SYS CONFIG AND SCHEDULE.

ACTION: NO ACTION REQUIRED.

F. ANOMALY: SLIGHT VARIATION IN IMAGE QUALITY EXISTS ACROSS FORMAT WITH BETTER QUALITY RECORDED ALONG CAM NUMBER EDGE ON AFT MATERIAL AND BINARY EDGE OF FWD MATERIAL.

CAUSE: PRE-FLIGHT AGT FILM LIFT MEASUREMENTS NORMALLY SHOW FILM
PLANE VARIATIONS ACROSS WEB. A MINOR DEGREE OF IMAGE PLANE TILT AND LENS

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FIELD CURVATURE ALSO EXISTS. THESE VARIATIONS ARE EXPECTED TO SHOW MINOR IMAGE QUALITY CHANGES ACROSS FR.

ACTION: NO ACTION IS RECOMMENDED.

G. ANOMALY: VERY DENSE FOG PATTERN IS PRESENT NEAR SUPPLY END OF LAST FR OF EACH CAM OP ON PASSES M69 TO D86 AND D148 TO D298 (END OF MSN). THE FOG PATTERN IS APPROX SIX INCHES IN LENGTH AND COVERS WIDTH OF FILM WEB.

CAUSE: LENS STOWING IN ACTIVE FORMAT WITH CAPPING SHUTTER OPEN. THIS ANOMALY WAS RESULT OF UNIDENTIFIED MALFUNCTION OF STOW SWITCH. AS INSTRUMENT OPERATED IN CREEP MODE, THE CENTER OF FORMAT SWITCH OPERATED NORMALLY, OPENING LATCHING RELAY AND PROVIDING POWER ONLY THROUGH STOW SWITCH. IF AT THIS TIME THE STOW SWITCH FAILS, THE LENS WILL STOP SOMEWHERE IN VICINITY OF CENTER FORMAT.

ACTION: NO ACTION RECOMMENDED.

H. ANOMALY: AFTER PASS D214 THE BINARY WORD IS IMAGED PROPERLY EXCEPT ON SECOND FR FROM END OF EACH CAM OP. THIS TIME WORD IS MODERATELY BLOOMED AND ALL BINARY BITS ARE IMAGED.

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CAUSE: ANOMALY IS CHARACTERISTIC OF PREVIOUSLY REPORTED MULTIPLE SLPS AND/OR SERIAL NUMBER PRINT-OUTS AT SHUTDOWN. HOWEVER, DUE TO STOW SWITCH PROBLEM, WHICH RESTRICTED PROPER STOWING OF LENS AND ADDITIONAL TRANSPORT OF MATERIAL PAST FINAL FR, THESE MULTIPLE PRINT-OUTS WERE SUPERIMPOSED. THE ONLY FR AFFECTED IS CREEP FR WHICH IS OF LIMITED VALUE.

ACTION: NO ACTION REQUIRED.

I. ANOMALY: A MINOR, LONGITUDINAL MINUS DENSITY STREAK IS PRESENT
ALONG THE CENTER OF FRS 1-17 OF PASS All3 FWD. THIS STREAK IS APPROX 1/4
TO 1/3 INCH WIDE.

CAUSE: POSITION AND WIDTH OF MARKING CORRELATE WITH PUCK ARM IN TAKE-UP.

ACTION: NO ACTION REQUIRED.

5. DISIC CAMERA PERFORMANCE: LAST ACQUISITION OBTAINED FROM INDEX CAM
IS FR 19 PASS 298. POINT-TYPE STAR IMAGES WERE RECORDED BY BOTH STELLAR
CAMS. APPROX 20-30 STAR IMAGES RECORDED ON PORT FORMATS. APROX 0-20 STAR
IMAGES RECORDED ON STB FORMATS. INDEX IMAGE QUALITY, WHERE NOT DEGRADED BY

TOP SECRET

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· .	CLASSIFIED MESSAGE	<u> </u>		F	ROUT	ING	
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STATIC FOGGING, IS GOOD AND COMPARABLE WITH BEST DISIC IMAGE QUALITY OBTAINED ON MSN 1109.

## 6. DISIC ANOMALIES:

TO

A. ANOMALY: DENDRITIC AND CORONA STATIC TRACES ARE PRESENT INTER-MITTENTLY THROUGHOUT STELLAR RECORD. DEGRADATION IS MINOR.

CAUSE: OVERALL STATIC LEVEL AMONG LOWEST OBSERVED IN DISIC TO

DATE. DISCHARGES FROM FILM EDGE ARE CHARACTERISTIC OF UNSPOOLING OR

ROLLER FLANGE DISCHARGE. THESE MARKS ARE CHARACTERISTIC OF SYSTEM IN SOME
SENSITIVE PRESSURE WINDOWS. SOME CORRELATION BETWEEN MARKING AND PMU
OFF PERIODS NOTED.

ACTION: NO ACTION REQUIRED.

B. ANOMALY: A SERIES OF CONTINUOUS PLUS DENSITY LINES ARE CONCENTRATED
IN A 0.8 INCH WIDE BAND, 1.5 INCHES FROM NON-BINARY FILM EDGE. SOME DEGRADATION
APPARENT; HOWEVER, PRACTICALLY ALL IMAGERY IS GOOD. THIS PATTERN RESEMBLES
THAT EXHIBITED ON MSN 1110-1, BUT LESS SEVERE. MARKING FIRST APPEARED IN
PRE-FLIGHT TEST OPERATIONS RECOVERED WITH FLIGHT FILM.

CAUSE: FLIGHT RESULTS AND AP GROUND TESTS INDICATE THAT FILM REMAINED.

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TO		INFO			CITE		
		DURING FILM TRANSPORT. IN	· m + 4				
	INDICATE MOST LIKELY SOURC	ES ARE INCORRECT LOCATION OF	: IN	DEX	FILM ROLI	LER/	
	ROLLERS IMMEDIATELY ADJACE	NT TO PLATEN AND/OR ANOMALOU	IS S	TAT	IC CHARGE		
	CHARACTERISTIC OF GRID PLA	TES.					
	ACTION:	WILL UNDERTAKE IMMEDIATE	. QU	ANT	ITAT <b>IV</b> E		
	ANALYSIS OF PROBLEM. SPEC	IFICALLY: (1) MEASUREMENTS	WIL	L B	E MADE TO		
		AND DISTANCES OF INDEX FILM				·v	
						: *	
		INING DISIC UNITS (S/N 8, 13					
		PLATES IS UNDER INVESTIGATI					
	ANY PROCESS CHANGES/ANOMAL	IES CORRELATE WITH MARKING P	ROB	LEM	. (3) OPER	ATIONAL	
	PROCEDURES OR HARDWARE CHAI	NGES MADE BETWEEN 1109 AND 1	110	WH:	ICH MAY AF	FECT	
	SYSTEM MARKING WILL BE INV	ESTIGATED. CORRECTIVE ACTIO	N W	ILI.	BE MADE A	s	

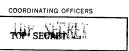
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D. ANOMALY: AN IMAGE OF AN EYELASH IS PRESENT ON EVERY PORT FRAME OF MSN 1111-2 AFTER PASS 100, RESULTING IN SOME LOCAL OUT OF FLAT CONDITION IN

VICINITY OF EYELASH.

CAUSES AND SOLUTIONS ARE FOUND.



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PAGE 17 OF 17				
TO INFO  CAUSE: EYELASH DISLODGED AND WAS CARRIED TO	EOCAT, I	CITE PLANE		
ACTION: CONTINUING ATTENTION TO CLEANLINESS				
FLIGHT PREPS. ASSIGNED TO				
7. ACTION ITEMS FROM MSN 1110 WERE DISCUSSED. FOUR	CLOSED	AND THREE		
STILL UNDER INVESTIGATION. THE OPEN ITEMS ARE:				
AC 1110-1, MINUS DENSITY SPOTS ON AFT LOOKING FIL	M.			
AC 1110-3, PLUS DENSITY SPOTS ON FILM OF BOTH PAN	I CAMERA	us.		
AC 1110-6, PLUS DENSITY LINES ON DISIC TERRAIN FI	ILM.			
END OF MESSAGE				
,				
COORDINATING OFFICERS	-			
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